

2/25/05

FEB. 25. 2005 4:31PM MOFO 28TH FL

NO. 935 P. 8

ALTERNATIVE TO PTQ/5B/08a/b (06-03)

Substitute for form 1449/PTO				Complete If Known	
				Application Number	10/821,710
				Filing Date	April 8, 2004
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1638
				Examiner Name	D. Sullivan
Sheet	1	of	1	Attorney Docket Number	546322000304

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Document Number Number-Kind Code ^a (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DS	AA	US 5,578,718	11-28-1996	Szyf et al.	
DS	AB	US 5,999,383	12-07-1999	Wright et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code ^a -Number-Kind Code ^b (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DS	BA	WO 95/15378	08-08-1995		T ^c

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ^aApplicant's unique citation designation number (optional). ^bSee Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ^cEnter Office that issued the document, by the two-letter code (WIPO Standard ST.1). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ^dKind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ^eApplicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ^c
DS	CA	Agrawal et al. (2000) "Antisense therapeutics: is it as simple as complementary base recognition?" Molecular Medicine Today 6: 72-81.			
DS	CB	Cameron et al. (1994) "Multiple Domains in a Ribozyme Construct Confer Increased Suppressive Activity in Monkey Cells" Antisense Research and Development 4: 87-94.			
DS	CC	Jen et al. (2000) "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies" Stem Cells 18: 307-319.			
DS	CD	Opalinska et al. (2002) "Nucleic-Acid Therapeutics: Basic Principles and Recent Applications" Nature Reviews 1: 503-514.			

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^aApplicant's unique citation designation number (optional). ^bApplicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>D. Sullivan</i>	Date Considered	6/21/05
sf-1876558			



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket Number	546322000304
-------	---	----	---	------------------------	--------------

Complete if Known

Application Number	10/821,710
Filing Date	April 8, 2004
First Named Inventor	Michael W. GRAHAM
Art Unit	1636
Examiner Name	D. M. Sullivan

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DS	AA	US 4,766,072	08-23-1988	Jendrisak et al.	
	AB	US 5,190,931	03-02-1993	Inouye	
	AC	US 5,272,065	12-21-1993	Inouye et al.	
	AD	US 5,208,149	05-04-1993	Inouye	
	AE	US 2003/0056235 A1 with amendments	03-20-2003	Fire et al.	
	AF	US 2003/0159161 A1	08-21-2003	Graham et al.	
	AG	US 2004/0180439 A1	09-16-2004	Graham et al.	
DS	AH	US 2004/0266005 A1	12-30-2004	Graham et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
DS	BA	WO 97/44450	11-27-1997		
DS	BB	WO 03/022052	03-20-2003		
DS	BC	WO 03/056012	07-10-2003		

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
DS	CA	COHLI ET AL. (1994) "Inhibition of HIV-1 multiplication in a human CD4+ lymphocytic cell line expressing antisense and sense RNA molecules containing HIV-1 packaging signal and Rev response element(s)" <i>Antisense Research and Development</i> 4: 19-26.			
DS	CB	FIRE ET AL. (1991) "Production of Antisense RNA Leads to Effective and Specific Inhibition of Gene Expression in <i>C. Elegans</i> Muscle" <i>Development</i> , 113(2): 503-514.			
DS	CC	FRASER ET AL. (1996) "Effects of c-myc first exons and 5' synthetic hairpins on RNA translation in oocytes and early embryos of <i>Xenopus laevis</i> " <i>Oncogene</i> 12(6):1223-30.			
DS	CD	Hungarian Patent Office Search Report mailed July 13, 2004, for Hungary patent application no. P0101225, 1 page.			
DS	CE	KIBLER ET AL. (1997) "Double Stranded RNA is a Trigger for Apoptosis in <i>Vaccinia Virus Infected Cells</i> " <i>Journal of Virology</i> , 71(3): 1992-2003.			
DS	CF	KOZAK (1989) "Circumstances and mechanisms of inhibition of translation by secondary structure in eucaryotic mRNAs" <i>Mol. Cell. Biol.</i> 9:5134-5142.			

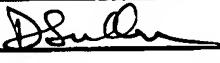
Examiner Signature		Date Considered	6/21/05
--------------------	--	-----------------	---------

Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/821,710
				Filing Date	April 8, 2004
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1636
				Examiner Name	D. M. Sullivan
Sheet	2	of	2	Attorney Docket Number	546322000304

DS	CG	LIEBHABER ET AL. (1992) "Translation inhibition by an mRNA coding region secondary structure is determined by its proximity to the AUG initiation codon" <i>J. Mol. Biol.</i> 226:609-621.
DS	CH	LINGELBACH ET AL. (1988) "An extended RNA/RNA duplex structure within the coding region of mRNA does not block translational elongation" <i>Nuc. Acids Res.</i> 16 3405-3414.
	CI	LOOMIS ET AL. (1991) "Antisense RNA inhibition of expression of a pair of tandemly repeated genes results in a delay in cell-cell adhesion in Dictyostelium" <i>Antisense Res. Dev.</i> 1:255-260.
B	CJ	MIKOSHIBA ET AL. (1991) "Molecular biology of myelin basic protein: gene rearrangement and expression of anti-sense RNA in myelin-deficient mutants" <i>Comp. Biochem. Physiol.</i> 98:51-61.
DS	CK	OKANO ET AL. (1991) "Myelin basic protein gene and the function of antisense RNA in its repression in myelin-deficient mutant mouse" <i>J. Neurochem.</i> 56:560-567.
DS	CL	PELLETIER ET AL. (1985) "Insertion mutagenesis to increase secondary structure within the 5' noncoding region of a eukaryotic mRNA reduces translational efficiency" <i>Cell</i> , 40:515-526.
DS	CM	PICCIN ET AL. (2001) "Efficient and Heritable Functional Knock-out of an Adult Phenotype in Drosophila using a GAL4-Driven Hairpin RNA Incorporating a Heterologous Spacer" <i>Nucleic Acids Research</i> , 29(12) E55:1-5.
DS	CN	SVOBODA, P. ET AL. (2001) "RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA" <i>Biochem Biophys Res Commun.</i> , 287(5): 1099-1104.
DS	CO	WATSON (1988) "A new revision of the sequence of plasmid pBR322" <i>Gene</i> 70:399-403.
DS	CP	WEAVER ET AL. (1981) "Introduction by molecular cloning of artifactual inverted sequences at the 5' terminus of the sense strand of bovine parathyroid hormone cDNA" <i>PNAS</i> 78: 4073-4077.

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	6/21/05
sf-1856826			